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(21) International Application Number: PCT/US96/18875 (22) International Filing Date: 26 November 1996 (26.11.96) (30) Priority Data: 08/574,741 19 December 1995 (19.12.95) US (71) Applicant: BAXTER INTERNATIONAL INC. [US/US]; One Baxter Parkway, Deerfield, IL 60015 (US). (72) Inventors: SUN, Chong-son; 530 Golf Lane, Lake Forest, IL 60045 (US). CHAPMAN, John; 67 Kevin Avenue, Lake Villa, IL 60046 (US). BISCHOF, Daniel, F.; 4913 Raintree Court, McHenry, IL 60050 (US). (74) Agents: SEREWICZ, Denise, M. et al.; Baxter International Inc., Route 120 and Wilson Road, RLP-30, Round Lake, IL 60073 (US).	(81) Designated States: CA, JP, NO, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>	

(54) Title: **SYSTEMS AND METHODS FOR REMOVING FREE AND ENTRAINED CONTAMINANTS IN PLASMA**

(57) Abstract

Systems and methods treat plasma carrying contaminants and leukocytes that are capable of entraining contaminants. The systems and methods separate leukocytes from the plasma by filtration, thereby removing contaminants entrained within leukocytes. The systems and methods also add to the plasma a photoactive material and emit radiation at a selected wavelength into the plasma to activate the photoactive material and thereby eradicate the contaminant that is free of entrainment by leukocytes.

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特許協力条約に基づいて公開された国際出願

<p>(51) 国際特許分類 5 A61K 35/14, A61M 1/34</p>	<p>A1</p>	<p>(11) 国際公開番号 WO 92/04906 (43) 国際公開日 1992年4月2日 (02.04.1992)</p>
<p>(21) 国際出願番号 POT/JP91/01277 (22) 国際出願日 1991年9月25日 (25. 09. 91) (30) 優先権データ 特願平2/251998 1990年9月25日 (25. 09. 90) JP (71) 出願人 (米國を除くすべての指定國について) 旭メデカル株式会社 (ASAHI MEDICAL CO., LTD.) (JP/JP) 〒100 東京都千代田区千代田1丁目1番1号 Tokyo. (JP) (72) 発明者: および (75) 発明者/出願人 (米國についてのみ) 岡崎一郎 (OKA, Shin-ichiroh) (JP/JP) 〒870 大分県大分市明野南8丁目12番1号 Oita. (JP) 西村隆雄 (NISHIMURA, Takao) (JP/JP) 〒870 大分県大分市大字志村468番地 Oita. (JP) (74) 代理人 弁理士 片桐光治 (KATAGIRI, Mitsuji) 〒107 東京都港区赤坂4丁目3番1号 共同ビル赤坂812号 Tokyo. (JP) (81) 指定國 AT (欧州特許), BE (欧州特許), CH (欧州特許), DE (欧州特許), DK (欧州特許), ES (欧州特許), FR (欧州特許), GB (欧州特許), GR (欧州特許), IT (欧州特許), LU (欧州特許), NL (欧州特許), SE (欧州特許), US.</p>		<p>添付公開書類 国際調査報告書</p>
<p>(54) Title : LEUKOCYTE REMOVAL METHOD AND LEUKOCYTE REMOVAL FILTER SYSTEM (54) 発明の名称 白血球除去方法および白血球除去フィルタースystem (57) Abstract A method of removing leukocytes from a leukocyte-containing blood preparation which comprises preparing a leukocyte-poor blood preparation by subjecting the leukocyte-containing blood preparation to the first-stage leukocyte removal treatment to remove at least 60 % of the leukocytes contained in said preparation and subjecting the leukocyte-poor blood preparation to the second-stage leukocyte removal treatment by the use of a microfilter element made from nonwoven or woven fabric having a mean fiber diameter of 0.3 to 1.6 μm. A leukocyte removal filter system wherein the first-stage filter element communicates with the second-stage filter element and is located on the upstream side of the second-stage element in the direction of flow of the leukocyte-containing blood preparation being treated. The above method and system can reduce the content of the leukocytes remaining in the blood preparation to 10^{-4} or below and also the size of the filter.</p>		